BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to Road and Drains at Kogilu in Ward No.05, Byatarayanapura Sub Division

			Estimate Cost Rs.					2000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2013-14	cum							
	Desilting of Drains								
	Krishnadeveraiah Layout Main Road Kogilu		2	175.00	0.40	0.35	49.00		
	Burm Cutting								
	Krishnadeveraiah Layout Main Road Kogilu		2	175.00	0.90	0.30	94.50		
	For CC Road Kogilu Cross Road		1	60.00	3.00	0.30	54.00		
			2	55.00	3.00	0.30	99.00		
							296.50	126.36	**37466.00**
	Basic Rate	117.00							
	Area Weightage @ 8%	9.36							
	Total	**126.36**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2013-14	Cum							
	For Culverts		4	7.00	1.95	1.05	57.33		
							57.33	227.88	**13064.00**
	Basic Rate	211.00							
	Area Weightage @ 8%	16.88							
	Total	**227.88**							
3	Removing B.S Slab of Drain and stacking Page No. 28/ Item No. 5.32/ PWD SR 2013-14	Sqm							
	Krishnadeveraiah Layout Main Road Kogilu		2	175.00	1.35		472.50		
							472.50		
	Deduct 20% Missing Slabs						94.50		
							378.00	50.11	**18942.00**
	Basic Rate	46.40							
	Area Weightage @ 8%	3.71							

Sl. No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**50.11**							
4	Refixing stone slabs of drains and pointing C.M (1:3) Page No. 28/ Item No. 5.33/ PWD SR 2013-14	Sqm							
	Krishnadeveraiah Layout Main Road Kogilu		Qty Vide Item No.3				378.00		
							378.00	**70.04**	**26474.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2013-14	**Sqm**							
	For Missing slabs (20%)		Missing Slabs				94.50		
							94.50	343.44	**32455.00**
	Basic Rate	318.00							
	Area Weightage @ 8%	25.44							
	Total	**343.44**							
6	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2013-14	**Cum**							
	For Culverts		4	7.00	1.95	0.15	8.19		
	For CC Road		1	60.00	3.00	0.15	27.00		
			2	55.00	3.00	0.15	49.50		
							84.69	4290.84	**363391.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14	cum							
	For Culverts		4X2	7.00	0.60	0.45	15.12		
							15.12	3549.96	**53675.00**
	Basic Rate	3287.00							
	Area Weightage @ 8%	262.96							
	Total	**3549.96**							

Sl, No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14	**Sqm**							
	For Culverts		4X2	7.00	0.50	0.45	12.60		
							12.60	**4227.12**	**53262.00**
	Basic Rate	3914.00							
	Area Weightage @ 8%	313.12							
	Total	**4227.12**							
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2013-14	**Sqm**							
	For Culverts		4	7.00	0.60		16.80		
	For Sides		4X2	7.00	0.23		12.88		
			4X2	1.65	0.23		3.04		
	For CC Road		1X2	60.00	0.10		12.00		
			2X2	55.00	0.10		22.00		
							66.72	**244.08**	**16284.00**
	Basic Rate	**226.00**							
	Area Weightage @ 8%	18.08							
	Total	**244.08**							
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix **M10** withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2013-14	**cum**							
	For Culverts		4X2	7.00	0.50	0.10	2.80		
	Vent Bed		4	7.00	0.60	0.10	1.68		
							4.48	4737.96	**21226.00**
	Basic Rate	4387.00							
	Area Weightage @ 8%	350.96							
	Total	**4737.96**							
11	KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1/ PWD SR 2013-14	Sqm							

Sl. No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	For Culverts		4X2	7.00		0.50	28.00		
							28.00	79.92	**2238.00**
	Basic Rate	74.00							
	Area Weightage @ 8%	5.92							
	Total	**79.92**							
12	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix **M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, **No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2013-14**	**Cum**							
	For Culverts		4	7.00	1.65	0.23	10.63		
	For CC Road		1	60.00	3.00	0.10	18.00		
			2	55.00	3.00	0.10	33.00		
							61.63	5639.76	**347556.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							347578.40
	Total	**5639.76**							
13	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46.1/ PWD SR 2013-14	**Qtl**							
	0.80 Qtl/Cum		0.80	10.63			**8.50**	7380.72	**62742.00**
	Basic Rate	6834.00							
	Area Weightage @ 8%	546.72							62736.0
	Total	**7380.72**							
8 14.	KSRRB M2600-3: (ii) Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, No. 248/ Item No. 31.3 PWD SR 2013-14	M							
	For CC Road		18	3.00			54.00		

Sl. No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			36	3.00			108.00		
							162.00	137.16	**22220.00**
	Basic Rate	127.00							
	Area Weightage @ 8%	10.16							
	Total	**137.16**							
9 15.	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 187/ Item No. 22.7/ PWD SR 2013-14	Sqm							
	For CC Road		1	60.00	3.00		180.00		
			2	55.00	3.00		330.00		
							510.00	91.80	**46818.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
6 16.	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
			1	165.00	0.90		148.50		
							148.50	1427.15	**211932.00**
	Data Rate	**1427.15**							
14 17.	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 170/ Item No. 20.18/ PWD SR 2013-14	Cum							
	Krishnadeveraiah Layout Main Road Kogilu		1	175.00	7.00	0.15	183.75		
							183.75	1121.04	**205991.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							

Sl. No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15 18	KSRRB 500-4: providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 175/ Item No. 21.4/ PWD SR 2013-14	Sqm							
	Krishnadeveraiah Layout Main Road Kogilu		1	175.00	7.00		1225.00		
							1225.00	100.60	**123237.00**
	Basic Rate	93.15							
	Area Weightage @ 8%	7.45							
	Total	**100.60**							
16 19	KSRRB M500-18: Providing and laying **semi dense bituminous concrete 25mm thick** with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 174/ Item No. 21.20/ PWD SR 2013-14	Cum							
	Krishnadeveraiah Layout Main Road Kogilu		1	175.00	7.00	0.025	30.63		
							30.63	9631.44	**294963.00**
	Basic Rate	8918.00							
	Area Weightage @ 8%	713.44							295011.01
	Total	**9631.44**							
17 20	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1+2				**353.83**		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							353.83	67.32	23820.00
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading	62.20							
	Total	**67.32**							
18	For 1% Third Party Charges								20000.00
19	Miscesallaneous Charges	L/S						2303.0	2244.00
								Total	2000000.00

Limited to 352.0 361.03

(Rupees Twenty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2013-14
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer

Executive Engineer
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike

Technical Sanction for Rs. Rs 20.00 lakhs
Rupees twenty lakhs only
P 1771
EE No 77/13-14
Registered as EE ( ) No 77/13-14 dated Subject to conditions contained in enclosed memo.
No: Dt. 29/10/13

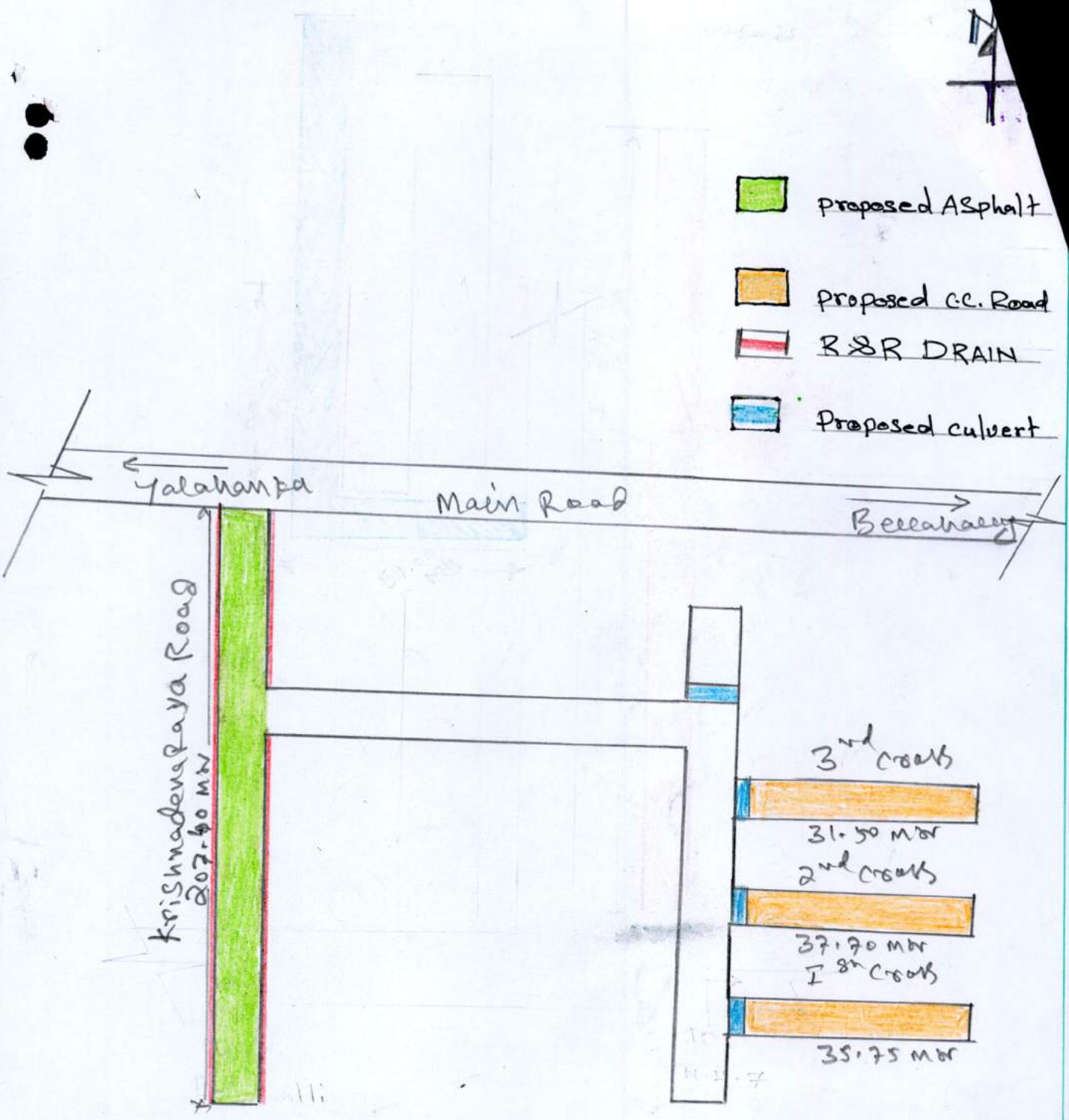
AEE/JE

EE (BTP.Div.)

ADMINISTRATIVELY SANCTIONED FOR Rs 20-00 lacs
Rupees twenty lakhs
Under P-1771
Registered as EE ( ) No 291/13-14
Subject to conditions contained in enclosed memo EE ( ) No /91
Dt JC/Yn/291/13-14 30/10/13
Estimate A/S sanctioned
No
dated Rs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

30/10/13



SKETCH SHOWING :- Improvements to Roads and Drains at Kogilu in Ward No. 05 Byatarayana pura Subdivision Yelahanka Zone B.B.M.P

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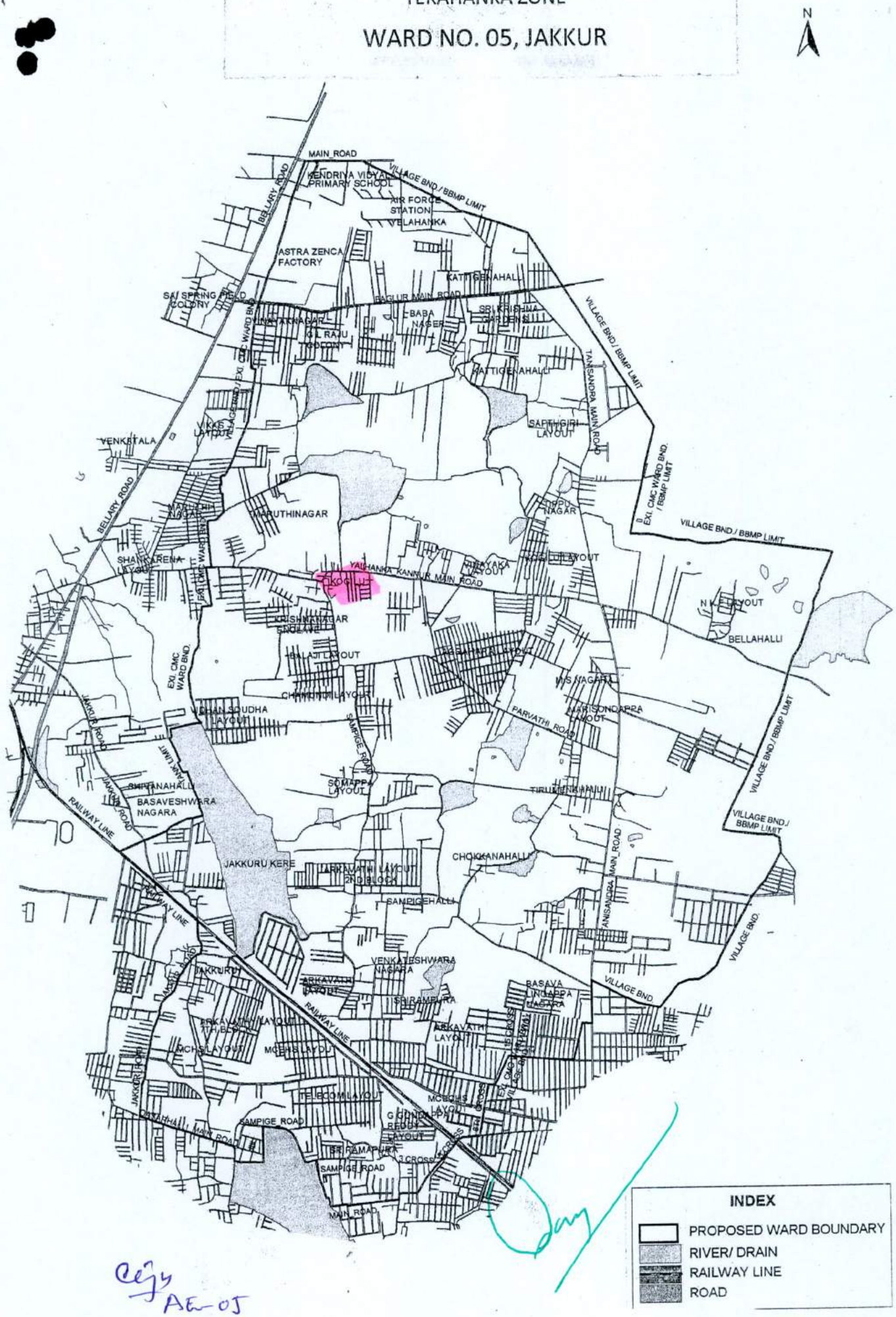
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

BRUHAT BANGALORE MAHANAGARA PALIKE

YEKAHANKA ZONE

WARD NO. 05, JAKKUR



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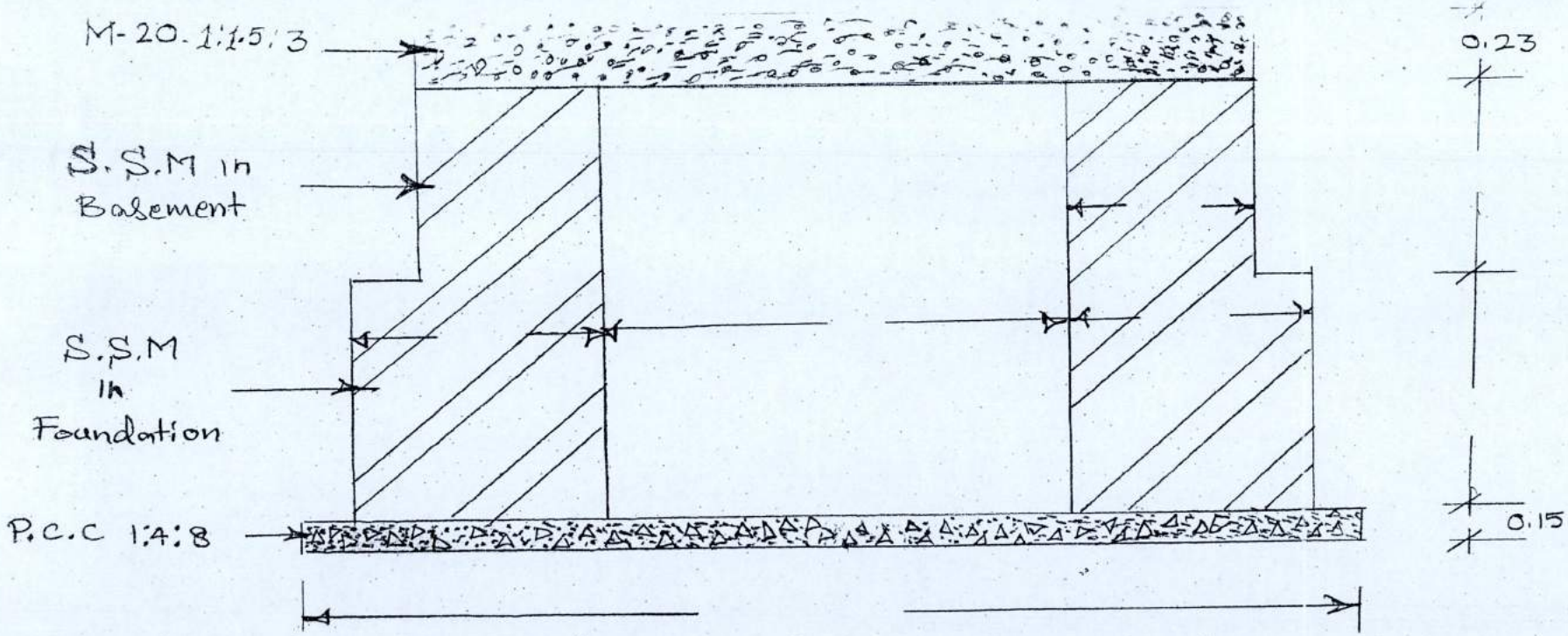

CROSS SECTION OF CULVERT

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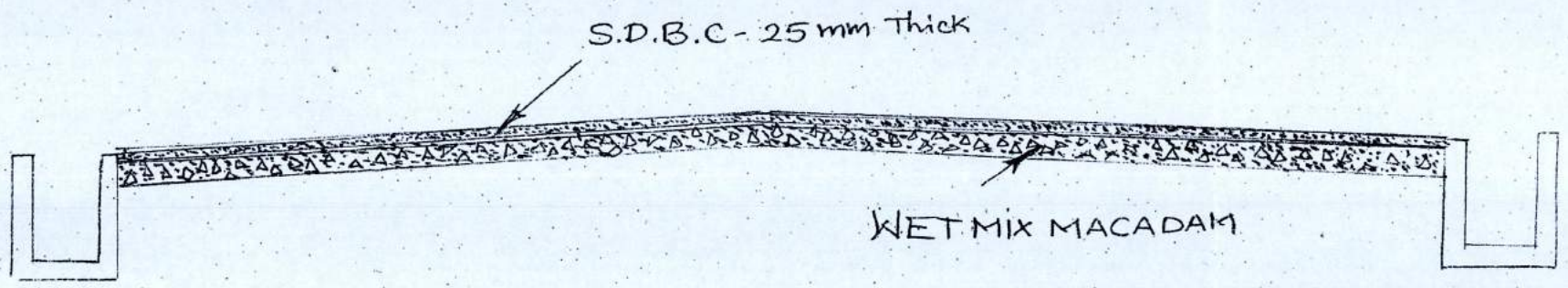
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Divisi...
B.B.M.P. Bangalore-24



CROSS SECTION OF ASPHALT ROAD

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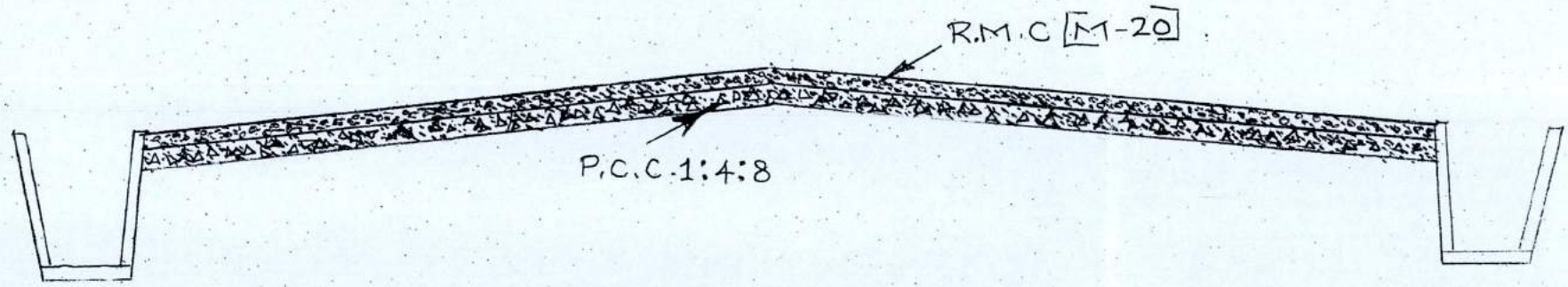
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore



CROSS SECTION OF C.C. ROAD

Ref to AE-05